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=> d his nofile

     (FILE 'HOME' ENTERED AT 10:42:31 ON 14 JUN 2006)

     FILE 'CAPLUS' ENTERED AT 10:42:36 ON 14 JUN 2006
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                SEL RN

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L2           14 SEA ABB=ON  PLU=ON  (706779-05-7/BI OR 111025-46-8/BI OR
                146062-48-8/BI OR 2295-31-0/BI OR 50-99-7/BI OR 708270-71-7/BI
                OR 708270-72-8/BI OR 708270-73-9/BI OR 708310-20-7/BI OR
                708310-21-8/BI OR 708310-22-9/BI OR 708312-79-2/BI OR 708312-80
                -5/BI OR 708312-81-6/BI)
                D SCAN

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     FILE 'REGISTRY' ENTERED AT 10:48:56 ON 14 JUN 2006
L*** DEL      0 S C28 H27 N7 O6 S
L3           18 SEA ABB=ON  PLU=ON  C28H27N7O6S
L4      2471201 SEA ABB=ON  PLU=ON  NC5/ES
L5            3 SEA ABB=ON  PLU=ON  L3 AND L4
                D SCAN
L6            2 SEA ABB=ON  PLU=ON  L5 NOT NCNC3/ES
L7            1 SEA ABB=ON  PLU=ON  L6 NOT N2CNC-NCNC3/ES
                D SCAN
L8            1 SEA ABB=ON  PLU=ON  L3 AND NCSC2/ES
L9            1 SEA ABB=ON  PLU=ON  (L8 OR L7)
                D BROWSE L9

     FILE 'CAPLUS' ENTERED AT 10:56:05 ON 14 JUN 2006
L10           1 SEA ABB=ON  PLU=ON  L9

     FILE 'STNGUIDE' ENTERED AT 10:57:22 ON 14 JUN 2006
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     FILE 'CAPLUS' ENTERED AT 10:58:53 ON 14 JUN 2006
L11          18 SEA ABB=ON  PLU=ON  L3
L12          18 SEA ABB=ON  PLU=ON  (L11 OR L1)
L13           1 SEA ABB=ON  PLU=ON  (L10 OR L1)
                E COLCA J/AU
L14          75 SEA ABB=ON  PLU=ON  ("COLCA J R"/AU OR "COLCA JERRY"/AU OR
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                E MCDONALD W/AU
L15          19 SEA ABB=ON  PLU=ON  ("MCDONALD W"/AU OR "MCDONALD W G"/AU OR
                "MCDONALD WILLIAM"/AU OR "MCDONALD WILLIAM G"/AU OR "MCDONALD
                WILLIAM GERALD"/AU OR "MCDONALD WILLIAM GERARD"/AU)
L16           4 SEA ABB=ON  PLU=ON  (L14 AND L15)
                D COST

     FILE 'REGISTRY' ENTERED AT 11:27:14 ON 14 JUN 2006
L17             STRUCTURE UPLOADED
L18           0 SEA SSS SAM L17

     FILE 'STNGUIDE' ENTERED AT 11:27:47 ON 14 JUN 2006

     FILE 'REGISTRY' ENTERED AT 11:29:07 ON 14 JUN 2006
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L21           1 SEA SSS FUL L19

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L25             STRUCTURE UPLOADED
L26           0 SEA SSS SAM L25

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                D QUE L17

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L28           0 SEA SSS FUL L19
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L29           0 SEA SSS FUL L23

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L31           0 SEA SSS SAM L19
                D QUE L23
                D QUE L19

     FILE 'REGISTRY' ENTERED AT 12:32:25 ON 14 JUN 2006
                D QUE L23
                D QUE L25
                D QUE L19

     FILE 'STNGUIDE' ENTERED AT 12:36:19 ON 14 JUN 2006

     FILE 'STNGUIDE' ENTERED AT 12:38:24 ON 14 JUN 2006

     FILE 'REGISTRY' ENTERED AT 12:55:12 ON 14 JUN 2006
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L37             STRUCTURE UPLOADED
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     FILE 'CAPLUS' ENTERED AT 12:58:53 ON 14 JUN 2006
L40           1 SEA ABB=ON  PLU=ON  L35
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L43           2 SEA SSS FUL L33
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L45             0 SEA SSS FUL L19
                  D COST
L46             2 SEA SSS SAM L33

     FILE 'STNGUIDE' ENTERED AT 13:04:29 ON 14 JUN 2006
                  D QUE L19
                  D QUE L46 STAT

=> file caplus
FILE 'CAPLUS' ENTERED AT 13:09:35 ON 14 JUN 2006
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FILE LAST UPDATED: 13 Jun 2006  (20060613/ED)

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                  "MCDONALD WILLIAM GERALD"/AU OR "MCDONALD WILLIAM GERARD"/AU)
L16             4 SEA FILE=CAPLUS ABB=ON  PLU=ON  (L14 AND L15)


=> d ibib abs l16 tot

L16  ANSWER 1 OF 4  CAPLUS  COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER:         2004:515638  CAPLUS
DOCUMENT NUMBER:          141:49385
TITLE:                    Mitochondrial membrane mitoNEET proteins binding
                          thiazolidindiones and their use in the development of
                          novel antidiabetic agents
INVENTOR(S):              Colca, Jerry R.; McDonald, William
                          G.
PATENT ASSIGNEE(S):       Pharmacia Corporation, USA
SOURCE:                   PCT Int. Appl., 116 pp.
                          CODEN: PIXXD2
DOCUMENT TYPE:            Patent
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LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|
| WO 2004053059 | A2 | 20040624 | WO 2003-US37476 | 20031125 |
| WO 2004053059 | A3 | 20050519 | | |
| W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW | | | | |
| RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG | | | | |
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| AU 2003295843 | A1 | 20040630 | AU 2003-295843 | 20031125 |
| BR 2003016923 | A | 20051018 | BR 2003-16923 | 20031125 |
| EP 1585391 | A2 | 20051019 | EP 2003-787055 | 20031125 |
| R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK | | | | |
| JP 2006515171 | T2 | 20060525 | JP 2004-559158 | 20031125 |
| US 2005043361 | A1 | 20050224 | US 2003-728679 | 20031205 |
| PRIORITY APPLN. INFO.: | | | US 2002-431520P P | 20021206 |
| | | | WO 2003-US37476 W | 20031125 |

AB A family of mitochondrial membrane proteins, which bind insulin sensitizing, antidiabetic thiazolidinediones, are identified and cDNAs encoding them are cloned. The proteins may be useful as drug targets and methods of identifying ligands for these proteins are identified. The invention further relates to methods useful for treating or modulating metabolic disorders in mammals in need of such biol. effect.

L16 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2004:152839 CAPLUS
DOCUMENT NUMBER: 140:370397
TITLE: Identification of a novel mitochondrial protein ("mitoNEET") cross-linked specifically by a thiazolidinedione photoprobe
AUTHOR(S): **Colca, Jerry R.; McDonald, William G.**; Waldon, Daniel J.; Leone, Joseph W.; Lull, June M.; Bannow, Carol A.; Lund, Eric T.; Mathews, W. Rodney
CORPORATE SOURCE: Pharmacia Corporation, Kalamazoo, MI, 49001, USA
SOURCE: American Journal of Physiology (2004), 286(2, Pt. 1), E252-E260
CODEN: AJPHAP; ISSN: 0002-9513
PUBLISHER: American Physiological Society
DOCUMENT TYPE: Journal
LANGUAGE: English

AB Thiazolidinediones address underlying causes of type 2 diabetes, although their mechanism of action is not clearly understood. The compds. are thought to function as direct activators of the nuclear receptor PPARγ (peroxisome proliferator-activated receptor-γ), although pioglitazone, the weaker agonist of the two thiazolidinediones now in clin. use, seems to have more useful effects on circulating lipids. We have used tritiated pioglitazone and a photoaffinity crosslinker to

identify a novel binding site in mitochondria. A saturable binding site for [3H]pioglitazone was solubilized from the membranes with CHAPS and migrated as a large complex by size exclusion chromatog. The binding correlated with a <17-kDa protein (m17), marked by a photoaffinity crosslinker, in both subcellular location and selectivity of competition by analogs. The protein was isolated and identified by mass spectrometry anal. and N-terminal sequencing. Three synthetic peptides with potential antigenic properties were synthesized from the predicted nontransmembrane sequence to generate antibodies in rabbits. Western blots show that this protein, which we have termed "mitoNEET," is located in the mitochondrial fraction of rodent brain, liver, and skeletal muscle, showing the identical subcellular location and migration on SDS-PAGE as the protein crosslinked specifically by the thiazolidinedione photoprobe. The protein exists in low levels in preadipocytes, and expression increases exponentially in differentiated adipocytes. The synthetic protein bound to solid phase associated with a complex of solubilized mitochondrial proteins, including the trifunctional β-oxidation protein. It is possible that thiazolidinedione modification of the function of the mitochondrial target may contribute to lipid lowering and/or antidiabetic actions.

REFERENCE COUNT: 52 THERE ARE 52 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L16 ANSWER 3 OF 4 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2003:443562 CAPLUS
DOCUMENT NUMBER: 139:242801
TITLE: Cross-linking in the Living Cell Locates the Site of Action of Oxazolidinone Antibiotics
AUTHOR(S): **Colca, Jerry R.; McDonald, William G.**; Waldon, Daniel J.; Thomasco, Lisa M.; Gadwood, Robert C.; Lund, Eric T.; Cavey, Gregory S.; Mathews, W. Rodney; Adams, Lonnie D.; Cecil, Eric T.; Pearson, James D.; Bock, Jeffrey H.; Mott, John E.; Shinabarger, Dean L.; Xiong, Liqun; Mankin, Alexander S.
CORPORATE SOURCE: Pharmacia Corp., Kalamazoo, MI, 49001, USA
SOURCE: Journal of Biological Chemistry (2003), 278(24), 21972-21979
CODEN: JBCHA3; ISSN: 0021-9258
PUBLISHER: American Society for Biochemistry and Molecular Biology
DOCUMENT TYPE: Journal
LANGUAGE: English

AB Oxazolidinone antibiotics, an important new class of synthetic antibacterials, inhibit protein synthesis by interfering with ribosomal function. The exact site and mechanism of oxazolidinone action has not been elucidated. Although genetic data pointed to the ribosomal peptidyltransferase as the primary site of drug action, some biochem. studies conducted in vitro suggested interaction with different regions of the ribosome. These inconsistent observations obtained in vivo and in vitro have complicated the understanding of oxazolidinone action. To localize the site of oxazolidinone action in the living cell, we have cross-linked a photoactive drug analog to its target in intact, actively growing Staphylococcus aureus. The oxazolidinone cross-linked specifically to 23 S rRNA, tRNA, and two polypeptides. The site of crosslinking to 23 S rRNA was mapped to the universally conserved A-2602. Polypeptides cross-linked were the ribosomal protein L27, whose N terminus may reach the peptidyltransferase center, and LepA, a protein homologous to translation factors. Only ribosome-associated LepA, but not free protein,

was cross-linked, indicating that LepA was cross-linked by the ribosome-bound antibiotic. The evidence suggests that a specific oxazolidinone binding site is formed in the translating ribosome in the immediate vicinity of the peptidyltransferase center.

REFERENCE COUNT: 59 THERE ARE 59 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L16 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2002:539929 CAPLUS
DOCUMENT NUMBER: 137:106476
TITLE: Oxazolidinone photoaffinity probes, uses and compounds
INVENTOR(S): **Colca, Jerry R.; McDonald, William Gerald;** Shinabarger, Dean L.
PATENT ASSIGNEE(S): Pharmacia & Upjohn Company, USA
SOURCE: PCT Int. Appl., 48 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | | DATE |
|---|---|---|---|---|---|
| WO 2002056013 | A2 | 20020718 | WO 2001-US48455 | | 20011214 |
| WO 2002056013 | A3 | 20031106 | | | |
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| CA 2432162 | AA | 20020718 | CA 2001-2432162 | | 20011214 |
| EP 1386153 | A2 | 20040204 | EP 2001-993282 | | 20011214 |
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| JP 2004537265 | T2 | 20041216 | JP 2002-556217 | | 20011214 |
| PRIORITY APPLN. INFO.: | | | US 2000-256053P | P | 20001215 |
| | | | WO 2001-US48455 | W | 20011214 |

OTHER SOURCE(S): MARPAT 137:106476
AB Disclosed are novel methods of identifying biol. targets of compds. that have antimicrobial activity. Also disclosed are novel methods of identifying compds. that can have antimicrobial activity.

=> d que l42
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L3 18 SEA FILE=REGISTRY ABB=ON PLU=ON C28H27N7O6S
L4 2471201 SEA FILE=REGISTRY ABB=ON PLU=ON NC5/ES
L5 3 SEA FILE=REGISTRY ABB=ON PLU=ON L3 AND L4
L6 2 SEA FILE=REGISTRY ABB=ON PLU=ON L5 NOT NCNC3/ES
L7 1 SEA FILE=REGISTRY ABB=ON PLU=ON L6 NOT N2CNC-NCNC3/ES
L8 1 SEA FILE=REGISTRY ABB=ON PLU=ON L3 AND NCSC2/ES
L9 1 SEA FILE=REGISTRY ABB=ON PLU=ON (L8 OR L7)
L10 1 SEA FILE=CAPLUS ABB=ON PLU=ON L9
L13 1 SEA FILE=CAPLUS ABB=ON PLU=ON (L10 OR L1)

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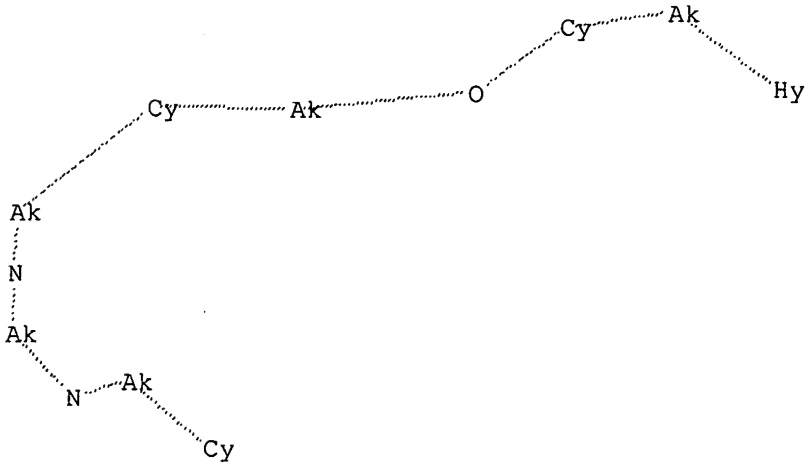


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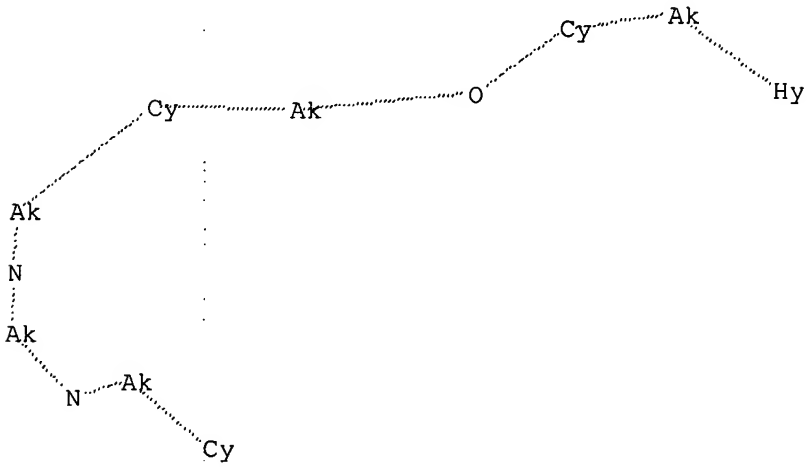


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L42 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2004:515638 CAPLUS
DOCUMENT NUMBER: 141:49385
TITLE: Mitochondrial membrane mitoNEET proteins binding thiazolidindiones and their use in the development of

novel antidiabetic agents
INVENTOR(S): Colca, Jerry R.; McDonald, William G.
PATENT ASSIGNEE(S): Pharmacia Corporation, USA
SOURCE: PCT Int. Appl., 116 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|
| WO 2004053059 | A2 | 20040624 | WO 2003-US37476 | 20031125 |
| WO 2004053059 | A3 | 20050519 | | |
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| BR 2003016923 | A | 20051018 | BR 2003-16923 | 20031125 |
| EP 1585391 | A2 | 20051019 | EP 2003-787055 | 20031125 |
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| JP 2006515171 | T2 | 20060525 | JP 2004-559158 | 20031125 |
| US 2005043361 | A1 | 20050224 | US 2003-728679 | 20031205 <-- |

PRIORITY APPLN. INFO.: US 2002-431520P P 20021206
WO 2003-US37476 W 20031125

AB A family of mitochondrial membrane proteins, which bind insulin sensitizing, antidiabetic thiazolidinediones, are identified and cDNAs encoding them are cloned. The proteins may be useful as drug targets and methods of identifying ligands for these proteins are identified. The invention further relates to methods useful for treating or modulating metabolic disorders in mammals in need of such biol. effect.

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RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(as affinity probe; mitochondrial membrane mitoNEET proteins binding thiazolidindiones and their use in development of novel antidiabetic agents)

RN 706779-05-7 CAPLUS
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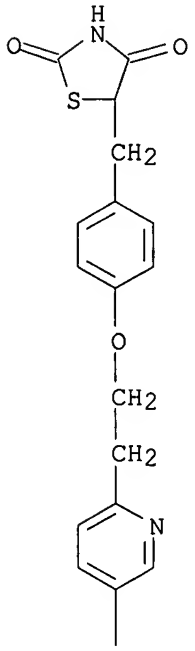

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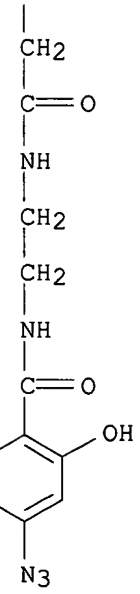


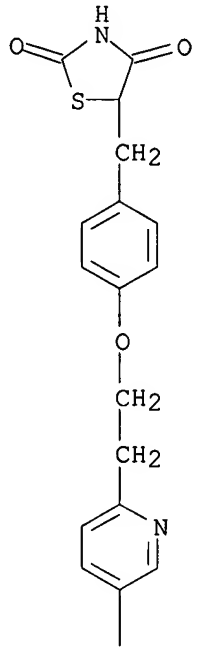
IT **706779-05-7P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and radioiodination of, in preparation affinity probe; mitochondrial

membrane mitoNEET proteins binding thiazolidindiones and their use in development of novel antidiabetic agents)

RN 706779-05-7 CAPLUS

CN 3-Pyridineacetamide, N-[2-[(4-azido-2-hydroxybenzoyl)amino]ethyl]-6-[2-[4-[(2,4-dioxo-5-thiazolidinyl)methyl]phenoxy]ethyl]- (9CI) (CA INDEX NAME)

PAGE 1-A



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